適應花蓮地區落花生品種改良

余德發

行政院農業委員會花蓮區農業改良場

摘　要：(1)88 年秋作及 89 年春作進行大粒豐產、耐黃化等新雜交組合，計有花蓮 1 號×H. I. 9302 等 10 個組合，共計獲得 719 粒雜交種子。(2)第一年株行試驗：由 87 年春、秋作 F_5 84201 及 F_5 85101 等 8 組合中共選出優良之 542 單株於 88 年春作進入第一年株行試驗，結果選出 85 優良品系，進入 88 年秋作二行試驗。在 88 年秋作在 F_5 86101 等 4 個組合中，選出優良之 286 單株供 89 年春作株行試驗，結果選出 72 優良品系，進入 89 年秋二行試驗。(3)第二年品系比較試驗：88 年秋作有 HL 83-11 等 9 品系及 89 年春作有 HL85-09 等 8 品系，莢果公頃產量分別較對照品種花蓮 1 號增產 12. 1%~3. 3%及 10. 4%~2. 1%，且皆為中大粒莢形。(4)第三年品系比較試驗：88 年秋作本場試區有 HL 82-12 等 5 品系，國富試區有 HL 82-20 等 3 品系，光復試區有 HL 82-18 等 6 品系，莢果公頃產量分別較對照品種花蓮 1 號增產 5. 7%~4. 5%、3. 6%~0. 6%及 12. 3%~4. 8%。89 年春作本場試區有 HL83-06 等 5 品系，國富試區有 HL83-06 等 6 品系，光復試區有 HL83-10 等 4 品系，莢果公頃產量分別較對照品種花蓮 1 號增產 19. 7%~8. 1%、17. 1%~8. 0%及 14. 6%~0. 8%。

Improvement of Peanut Varieties Adapted to Hualien Area

Yu D. F.

Hualien DAIS, COA

Abstract: The main goal of this breeding program is to develop new peanut varieties with high yielding and the best quality in Hualien area of Taiwan. The trials were conducted in the fiscal year. The results were summarized as follows: (1) 719 hybrid seeds were derived from ten new cross combinations. (2) Single plant selection was made at the F_5 generation and was based on the objective of breeding. 286 superior plants were selected at the F_5 generations in the fall crop season of 1999. (3) In the second yield trial, nine lines (HL 83-11 etc.) in the 1999 fall crop season and eight lines (HL 85-09 etc.) in the 2000 spring crop season were 3.3 – 12.1 % and 2.1 – 10.4 % higher in pod yield than the standard check, Hualien No. 1. (4) In the third year yield trial, five lines (HL82-12 etc.) at Chi-An site, three lines (HL82-20 etc.) at Kou-Fu site and six lines (HL82-18 etc.) at Kuan-Fu site were 0.6 – 12.3 % higher pod yield than the check, Hualien No. 1 in the fall crop season of 1999. In the spring crop season of 1998, five lines at Chi-An site, six lines at Kou-Fu site and four lines at Kuan-Fu site were 0.8 - 19.7 % higher pod yield than the check, Hualien No. 1 in the third yield trial.